

passage, the metal-lifting passage having an outlet opening in the molten metal for discharging molten metal received in the inlet opening means, the metal-lifting passage having gas-injection openings upstream of the molten metal outlet opening; gas passage means for connecting a source of gas to the gas-injection openings in the form of a gas jet into the metal-lifting passage such that the gas induces a flow of molten metal from the molten metal inlet opening means toward the molten metal outlet opening along an axis of motion, the improvement comprising:

the molten metal inlet opening means comprising a window in the metal-lifting passage disposed coaxially and/or laterally with respect to the path of motion of the gas flowing through the metal-lifting passage; [and]

the gas-injection openings are disposed to introduce a gas jet into the metal-lifting passage along said axis of motion; and

the gas injection openings discharge the gas into the metal lifting passage in the direction of metal flow as the gas mixes with the metal.

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B2 13. In a metal treating apparatus having a pot for holding a bath of molten metal, transfer means for moving the molten metal in the pot, including a molten metal-moving passage having inlet opening means disposed in the molten metal for receiving molten metal into the metal-moving passage, the metal-moving passage having an outlet opening for discharging molten metal received in the inlet opening means, the metal-moving passage having a gas-injection [openings] opening upstream of the molten metal outlet opening; gas passage means for [connecting] introducing a source of gas [to] from the gas-

29

injection [openings] opening in the form of a gas jet into the metal-moving passage in the direction the metal is moving past said gas injection opening toward the molten metal outlet opening such that the momentum of the gas induces a flow of the molten metal from the molten metal inlet opening means toward the molten metal outlet opening.

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B3 18 21. (Twice amended) A pump for moving a liquid comprising:

a body having a liquid inlet port for receiving liquid from a liquid source, and a liquid outlet port, and an internal liquid passage fluidly connecting the liquid inlet port and the liquid outlet port for passing liquid therethrough;

the internal passage having a tapered passage including one end thereof defining said inlet port of a first diameter, and an opposite end defining an outlet port of a second greater diameter downstream of the inlet port; [and]

a source of a gas, and gas jet means disposed in the tapered passage to induce a flow of the liquid from the inlet port toward the outlet port; and

the gas jet means discharge the gas into the internal liquid passage in the direction of liquid flow as the gas mixes with the liquid.

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28 24 27. (Amended) Apparatus for introducing a gas into a moving liquid comprising:

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a body having a liquid inlet port for receiving liquid from a liquid source, and a liquid outlet port, and an internal liquid passage fluidly connecting the liquid inlet port and the liquid outlet port for passage liquid therethrough;

the internal passage having a tapered passage including one end thereof defining said inlet port of a first diameter, and an opposite end defining an outlet port of a second lesser diameter downstream of the inlet port; [and]

a source of gas, and gas jet means disposed in the internal passage adjacent the inlet port to induce flow of the liquid from the inlet port toward the outlet port; and

the gas jet means discharge the gas into the internal passage in the direction of liquid flow as the gas mixes with the liquid.

~~25~~ 28. (Amended) Apparatus for introducing a gas into a moving liquid stream comprising:

a body means having a tapered internal passage, and an inlet and an outlet for passing a liquid through the tapered internal passage;

a gas distribution means disposed in the body adjacent the tapered passage, the gas distribution means having conduit means connected to a source of a gas, and nozzle means disposed in the body for delivering the gas into the liquid to induce a flow of the liquid through said internal tapered passage;

and

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